

**CONFIDENTIAL****WORK RECORD**CONTRACT NO. RD-128, T.O. 3CONTRACTOR [REDACTED]WORK ORDER NO. 4CHANGE ORDER NO. 120JOB TITLE Receiving AntennasISSUE DATE 20 March 1959

CRASH

PRIORITY NO. [REDACTED]TOTAL COST \$24397.03

of the above total estimated cost and fee is subject to the availability of funds.

REQUESTED COMPLETION DATE 55 days after contractors receipt OR  
of this work order.CONTRACTORS ESTIMATED COMPLETION DATE same as above.**WORK DESCRIPTION:**

Fabricate receiving antennas as per the contractor's letter of proposal dated 9 March 1959. This letter is designated as Attachment I to this work order #4.

EQUIPMENT SECURITY CLASSIFICATION UNCLASSIFIED

CONTRACTOR'S ACCEPTANCE:

CONTRACTING OFFICER'S APPROVAL

(Signature)

(Signature)

DATE COMPLETED [REDACTED]WORK ASSIGNED BY [REDACTED]BY: PHONE [REDACTED]VISIT XWRITTEN TASK [REDACTED]REQUESTING DIVISION APPROVAL [REDACTED]ENGINEERING DIVISION APPROVAL [REDACTED]CONTACT FOR REQUESTING DIVISION [REDACTED]COGNIZANT COMPANY CONTACTS: TECHNICAL [REDACTED]PHONE [REDACTED]BLDG. & ROOM [REDACTED]ADMINISTRATIVE [REDACTED]PHONE [REDACTED]BLDG. & ROOM [REDACTED]

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**SECRET**

NOTICE

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9 March 1959

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Gentlemen:

In compliance with a recent request of the addressee's representative, there is forwarded herewith [redacted] technical and cost plus fixed fee proposal in the amount of \$24,397.03, including fixed fee. A detailed cost breakdown of this amount is furnished as enclosure (2). It is estimated that the antennas can be delivered within fifty-five (55) days following receipt of a fully executed contract, as well as authorization for 500 hours of overtime premium pay for the [redacted] categories indicated on enclosure (2).

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It is understood that your requirements are for a group of antennas with the following general specifications:

Case I - Azimuth Coverage - 270°  
Frequency - 1-2 kmc; 2-4 kmc; 4-8 kmc; 8-10 kmc  
Polarization - Horizontal  
Output - 50 ohm coaxial line (Type N connector)  
Size - Maximum height - 23.6 inches

Case II - Azimuth Coverage - uni-directional  
Frequency - 550 to 1100 mc  
Polarization - Horizontal  
Output - 50 ohm coaxial line (Type N connector)  
Size - Maximum height - 23.6 inches

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To: 

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In addition, this antenna shall be rotatable by means of a motor driven pedestal, operated by remote control, and the pedestal shall be connected to a remote azimuth indicator by a Synchro generator and fellows arrangement. The available power source is 115 volts, 400 cycle, A.C. 28 volts D.C. is also available.

An additional identical pedestal, control box and indicator, loss antenna, is also required.

**Case III - Azimuth Coverage - 270°**

Frequency - 550 - 1100 mc

Polarization - horizontal

Output - 50 ohm coaxial line (Type N connector)

Size - Maximum height - 23.6 inches

**Case IV - Azimuth Coverage - omnidirectional**

Frequency - 50 to 100 mc; 125-250 mc

Polarization - Vertical

Output - 50 ohm coaxial line (Type N connector)

Size - Maximum height - 23.6 inches

By mutual agreement, azimuth coverage is defined as the beamwidth of the free space pattern of the antenna at nominal 6 db points. The relative power level could vary from 3 db to 10 db at the edges of the coverage region and still be acceptable. Where necessary, coverage may be obtained by the use of two or more antennas and the appropriate sector selected externally. (Switching not supplied by )

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Elevation coverage is not specified. It is understood that general coverage from horizon up is intended.

Minimum electrical tests to determine proper operation of each antenna are to be made. This would, in general, include pattern, gain and VSWR measurements at the ends and center of each frequency band. No environmental tests are to be performed.

Because of the extreme urgency of the requirement, the antennas to be delivered are engineering models. There are no special materials or finishes required. The antennas are to be fabricated from engineering sketches, and no drawings or reports are to be delivered. The reproducible copy of pertinent test data will be supplied.

Submitted as enclosure (3) is  technical proposal outlining the anticipated method of accomplishing the proposed work.

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To:

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9 March 1959

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This proposal may be considered firm for a period of ninety (90) days from the date of this letter.

In the event  is awarded this particular procurement, it is essential that the terms and conditions as outlined in enclosure (1) be given serious consideration in the preparation of a contract.

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We appreciate the opportunity of submitting this proposal, and in the event any additional information is desired, please advise.

Very truly yours,

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Contract Administrator

ATE:jfb

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stub. The approximate configuration of this type antenna  
is shown in Figure 18.